

Effectiveness of the Front End Processor and Waste Stabilization Facility

Otter Lake Facility

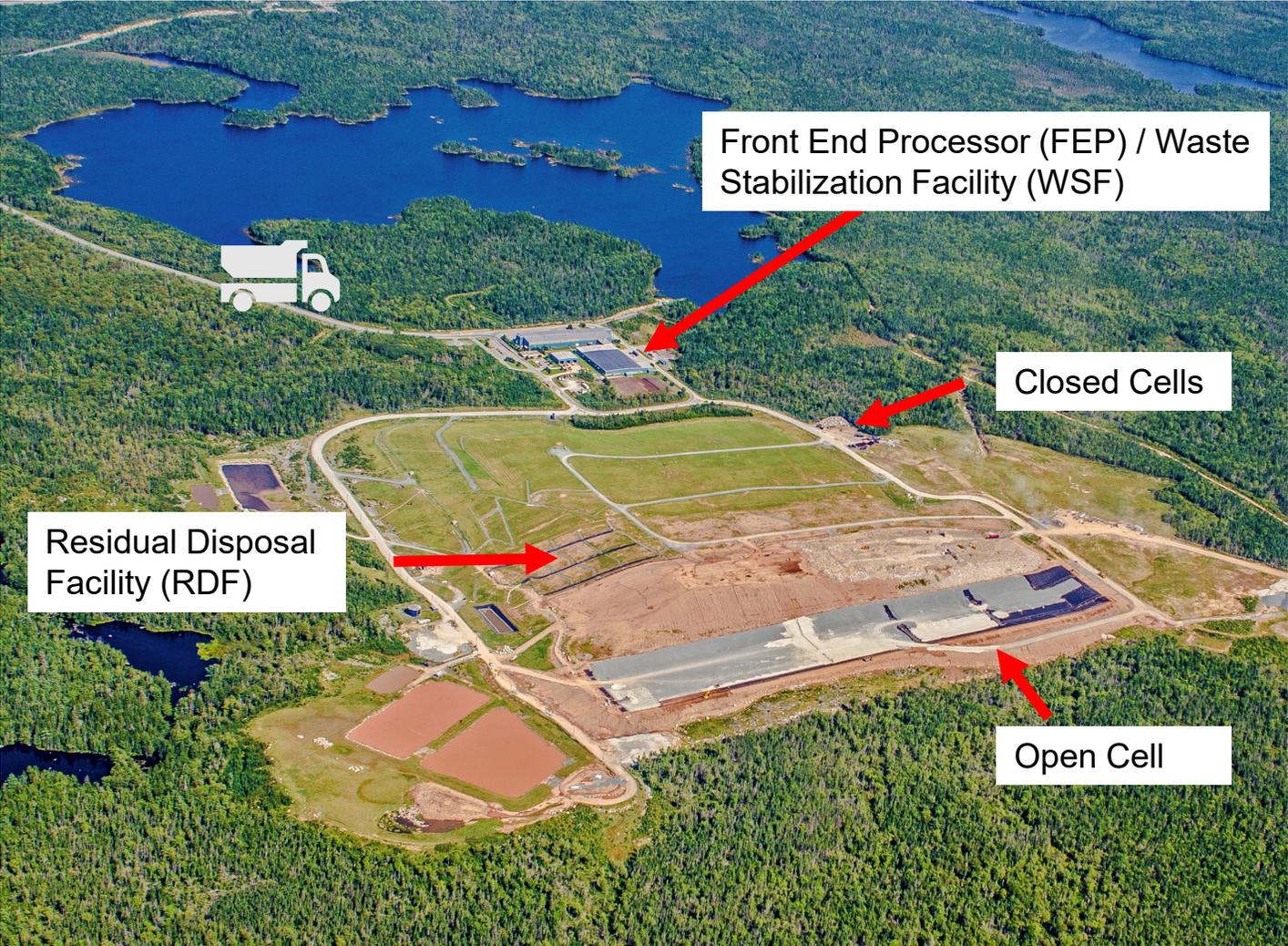
Committee of the Whole Meeting
July 20, 2021

AGENDA

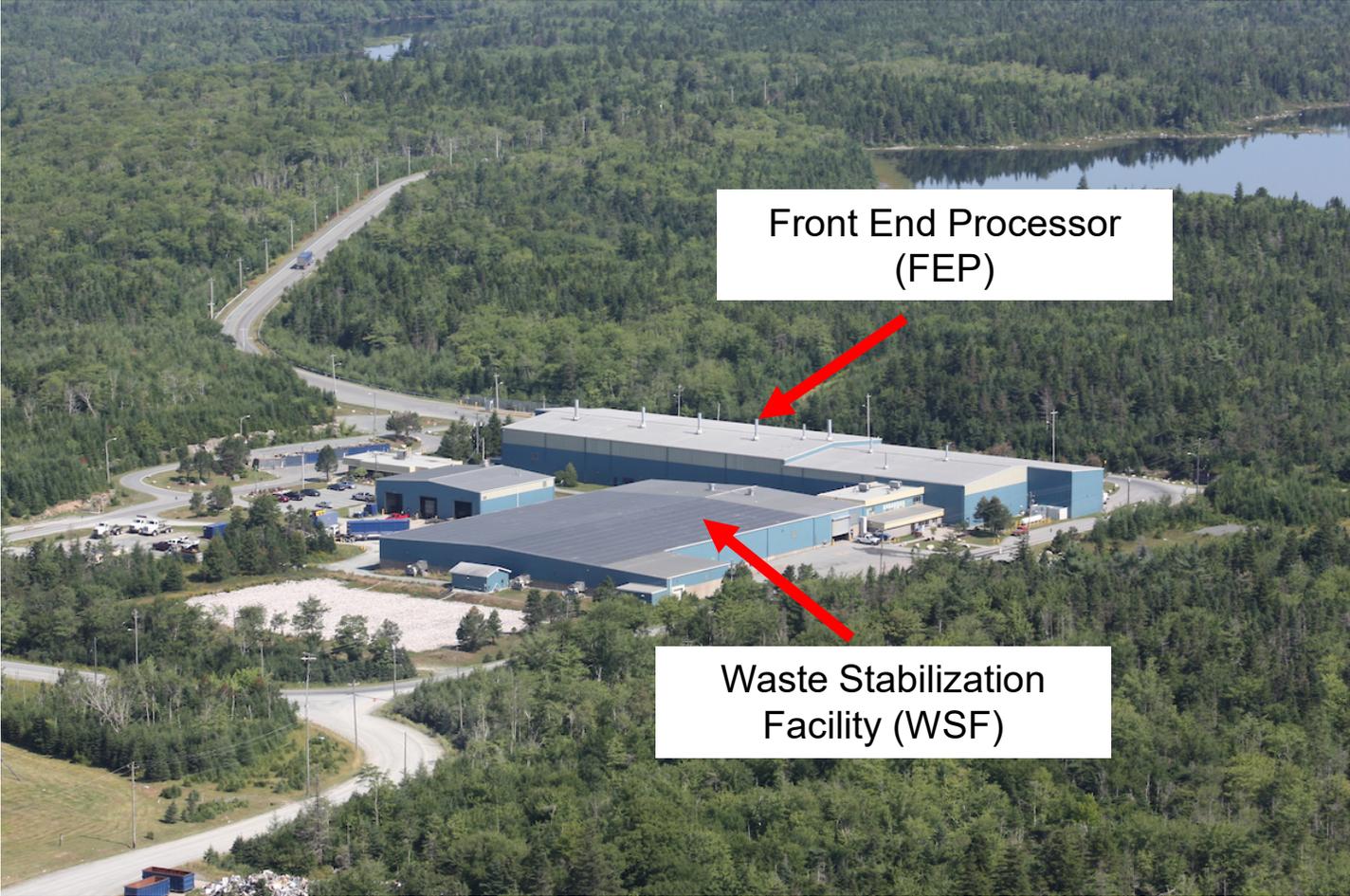
1. Background
2. Effectiveness of the FEP/WSF
3. Consultation with Community Monitoring Committee (CMC)
4. Recommendations & Next Steps

BACKGROUND

OTTER LAKE OVERVIEW



OTTER LAKE OVERVIEW



WSF OVERVIEW



BACKGROUND

1995 Integrated Waste/Resource Management Strategy:

- ✓ Legacy of Highway 101 Landfill
- ✓ Green Cart Program
- ✓ FEP/WSF envisioned for community protection

2014 Strategy Update:

- ✓ Effectiveness of FEP/WSF
- ✓ Clear Bags – August 1, 2015
- ✓ Elimination of ICI Garbage Flow Control – March 14, 2016

BACKGROUND

2016 Mirror NS Agreement:

- ✓ 20 year design-build-operate
- ✓ Replaced 1997 Agreement
- ✓ 'All in' processing fee of \$125 per tonne
- ✓ Mirror NS allowed to establish transfer station for ICI sector

If obligation to operate the FEP/WSF cannot be removed:

- ✓ Mirror has until Dec 31, 2021 to provide Notice of Early Termination
- ✓ Processing fee increases from \$125 to \$170 per tonne
- ✓ Contract expires on Dec 21, 2023

EFFECTIVENESS OF THE FEP/WSF

IMPACT OF CHANGES FROM 2014 STRATEGY

Otter Lake Waste Quantities

Fiscal Year	Residential Garbage (Tonnes)	ICI Garbage (Tonnes)	Special Garbage (Tonnes)	Total Processed/ Landfilled at Otter Lake (Tonnes)	ICI Garbage Processed Thru Transfer Station (Tonnes)
12/13	58,872	78,087	2,074	139,033	N/A
13/14	59,146	78,678	1,930	139,754	N/A
14/15	57,221	75,813	1,495	134,529	N/A
15/16	49,585	49,683	1,161	100,429	3,125
16/17	44,584	0	825	45,409	59,666
17/18	45,727	0	526	46,253	60,148
18/19	45,318	0	514	45,832	62,335
19/20	46,119	0	530	46,649	71,891



DILLON REPORT

Conclusion:

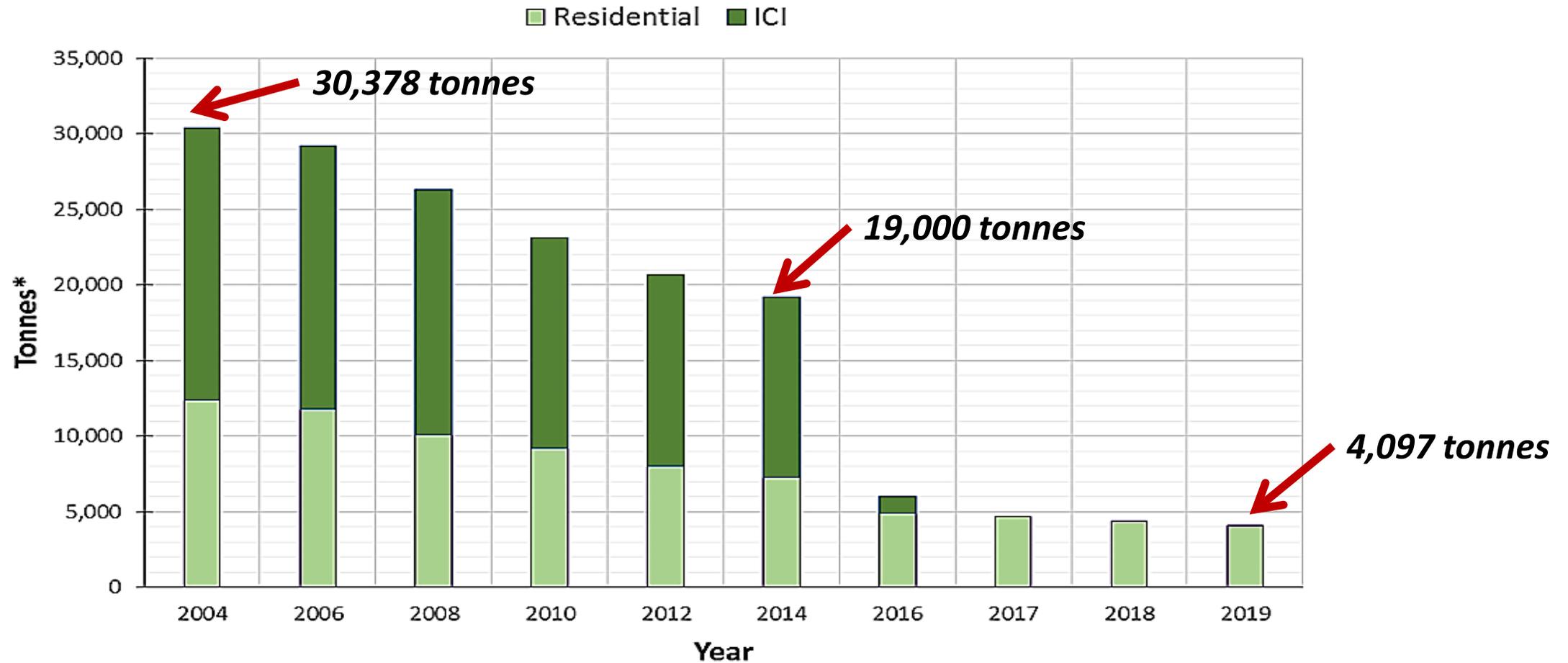
“Based on the results of this analysis, there does not appear to be any significant benefit to the continued operations of the FEP/WSF. Further, **there does not appear to be any increased risk to public health and the environment if the FEP/WSF operations are terminated.** Therefore, it is recommended that operations at the FEP and WSF be discontinued.”

Key Assumption:

ICI waste to be continued to be exported to other licensed facilities.

DILLON REPORT

Putrescible Organics Delivered to the FEP/WSF



DILLON REPORT

Key Findings:

- ✓ **No off-site impacts were identified** (e.g., odours, litter, bird and vector control etc.)
- ✓ **Some on-site impacts were identified as low to medium risk** related to the landfill tip face that can be mitigated and included:
 - Health and safety consideration related to truck delivery (medium risk)
 - Increased potential for blowing litter (medium risk)
 - Attraction of birds (medium risk)
 - Delivery of rodents in waste loads (low risk)

CONSULTATION WITH COMMUNITY MONITORING COMMITTEE (CMC)

CONSULTATION WITH CMC

Timeline:

- ✓ November 19, 2020 Staff announced to CMC proposed plan to deactivate FEP/WSF
- ✓ January 21, 2021 Staff/Mirror/Dillon presented proposed plan to deactivate FEP/WSF to CMC
 - March 7, 2021 CMC indicated not supportive of proposed plan
- ✓ April 19, 2021 Staff proposed phased deactivation plan, including pilot test to CMC
 - May 15, 2021 CMC deferred decision to the Halifax Waste Resource Society
 - May 30, 2021 Society indicated not supportive of phased deactivation plan

RECOMMENDATIONS AND NEXT STEPS

RECOMMENDATIONS

Staff recommendations:

- ✓ Mirror/HRM to submit a joint application NS Environment to deactivate the FEP/WSF under the following conditions:
 - FEP/WSF to be placed in standby mode and to be maintained in an operable state as a contingency
 - ICI waste to continue to be exported
 - CMC consulted on future proposed changes

- ✓ Negotiate with Mirror on extending contract timelines (i.e., notice of early termination)

NEXT STEPS

If Regional Council accepts the staff recommendations:

- ✓ Submit application to NS Environment
 - Review process ~ 2 to 3 months
 - NS Environment may require additional work (e.g., public consultation)
- ✓ Negotiate with Mirror extending contract timelines (i.e., notice of early termination)
 - Return to Council with recommendation

QUESTIONS?